

NICO NANOBUBBLE GENERATOR FOR HORTICULTURE

NICO Nanobubbles offers a ground-breaking strategy for managing pests and pathogens in Horticulture, especially within controlled environment agriculture settings. By infusing irrigation water with NICO Nanobubbles, dissolved oxygen (DO) levels surge, creating an inhospitable environment for anaerobic threats like pythium, phytophthora, and fusarium. Studies have demonstrated significant reductions, with pythium levels dropping by up to 80% post-nanobubble treatment. Furthermore, NICO Nanobubbles disrupt biofilm formation, neutralizing the proliferation of bacteria and fungi, thus reducing reliance on chemical pesticides and fostering a more sustainable horticultural ecosystem. Moreover, the application of NICO Nanobubble water through spraying, effectively eliminates pathogens and pests from surfaces, mitigating the risk of infestation. Additionally, NICO Nanobubbles induce cell lysis through oxidation upon collapse, eliminating micro organisms both in water and on surfaces.

Apart from pest and pathogen control, NICO Nanobubbles also promote robust root development by enhancing oxygenation levels. Stronger root systems translate to improved nutrient absorption, as evidenced by models showcasing increased root biomass and density Post-Nanobubble water treatment, leading to enhanced plant yield. NICO Nanobubbles thus emerge as a multifaceted solution, fortifying root health, suppressing pests and pathogens, and elevating overall crop productivity in horticulture.

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BENEFITS

- High gas transfer (upto 85% efficiency)
- Prevents algal blooms
- Improves water quality
- Increases dissolved oxygen levels
- Enhances crop yields



Tel: +1 (949) 269-1472 | E-mail: nicosales.usa@niconanobubbles.com | Website: www.niconanobubbles.com